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1 [Risks to the public: Risks to the public](#)



Peter G. Neumann

 July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(151.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

2 [The LOCKSS peer-to-peer digital preservation system](#)



Petros Maniatis, Mema Roussopoulos, T. J. Giuli, David S. H. Rosenthal, Mary Baker

 February 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(715.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The LOCKSS project has developed and deployed in a world-wide test a peer-to-peer system for preserving access to journals and other archival information published on the Web. It consists of a large number of independent, low-cost, persistent Web caches that cooperate to detect and repair damage to their content by voting in "opinion polls." Based on this experience, we present a design for and simulations of a novel protocol for voting in systems of this kind. It incorporates rate l ...

Keywords: Rate limiting, digital preservation, replicated storage

3 [Security: Analyzing and modeling encryption overhead for sensor network nodes](#)



Prasanth Ganesan, Ramnath Venugopalan, Pushkin Peddabachagari, Alexander Dean, Frank Mueller, Mihail Sichitiu

 September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM Press

 Full text available: [pdf\(254.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent research in sensor networks has raised security issues for small embedded devices.

Security concerns are motivated by the deployment of a large number of sensory devices in the field. Limitations in processing power, battery life, communication bandwidth and memory constrain the applicability of existing cryptography standards for small embedded devices. A mismatch between wide arithmetic for security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combined ...

Keywords: analysis, embedded systems, encryption overhead, model, sensor networks

4 Embedded applications: Encryption overhead in embedded systems and sensor network



nodes: modeling and analysis

Ramnath Venugopalan, Prasanth Ganesan, Pushkin Peddabachagari, Alexander Dean, Frank Mueller, Mihail Sichitiu

October 2003 **Proceedings of the 2003 international conference on Compilers, architecture and synthesis for embedded systems**

Publisher: ACM Press

Full text available: [pdf\(293.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent research in sensor networks has raised issues of security for small embedded devices. Security concerns are motivated by the deployment of a large number of sensory devices in the field. Limitations in processing power, battery life, communication bandwidth and memory constrain the applicability of existing cryptography standards for small embedded devices. A mismatch between wide arithmetic for security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combi ...

Keywords: embedded systems, encryption, security, sensor networks

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